

PATENT
Docket No: ST02001USU (159-US-U1)
Serial No.: 10/523,669

AMENDMENTS

TO THE CLAIMS:

Please amend the claims as follows:

1. (original): A method for processing, within a mobile device, protocol aiding data received at a call processor with a Global Positioning System ("GPS") interface, where the protocol aiding data is produced according to a Geolocation Server Station protocol, the method comprising:

receiving, at the GPS interface, the protocol aiding data received at the call processor;
converting the received protocol aiding data to interface data that is transparent to the Geolocation Server Station protocol; and
passing the interface data to a GPS module.

2. (original): The method of claim 1, further including packing the interface data into a message format before passing the interface data to the GPS module.

3. (original): The method of claim 1, wherein the call processor receives the protocol aiding data from a base station.

4. (original): The method of claim 3, wherein a Geolocation Server Station produces the aiding data.

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5. (original): The method of claim 4, wherein the Geolocation Server Station utilizes a Code Division Multiple Access ("CDMA") protocol to produce the protocol aiding data.

6. (original): The method of claim 5, wherein the protocol is IS-801.

7. (withdrawn): The method of claim 5, wherein the protocol is Universal Mobile Telecommunication System ("UMTS").

8. (withdrawn): The method of claim 5, wherein the protocol is CDMA 2000.

9. (withdrawn): The method of claim 4, wherein the Geolocation Server Station utilizes a Global System for Mobile Communication ("GSM") protocol to produce the protocol aiding data.

10. (withdrawn): The method of claim 4, wherein the Geolocation Server Station utilizes a General Packet Radio Service ("GPRS") protocol to produce the protocol aiding data.

11. (withdrawn): The method of claim 4, wherein the Geolocation Server Station utilizes a Time Division Multiple Access ("TDMA") protocol to produce the protocol aiding data.

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12. (withdrawn): The method of claim 4, wherein the Geolocation Server Station utilizes a Bluetooth® protocol to produce the protocol aiding data.

13. (withdrawn): The method of claim 4, wherein the Geolocation Server Station utilizes an IEEE 802.11 protocol to produce the protocol aiding data.

14. (original): The method of claim 1, further including utilizing the protocol aiding data for GPS acquisition.

15. (original): The method of claim 1, further including utilizing the protocol aiding data for calculating the location of the mobile device.

16. (original): The method of claim 1, further including utilizing the protocol aiding data for improving the sensitivity of the GPS module.

17. (original): The method of claim 1, wherein passing the interface data to a GPS module includes passing the interface data via a RS232 link.

18. (withdrawn): A protocol independent interface for processing, within a mobile device, protocol aiding data received at a call processor with a Global Positioning System

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("GPS") interface, where the protocol aiding data is produced according to a Geolocation Server Station protocol, the protocol independent interface comprising:

means for receiving, at the GPS interface, the protocol aiding data received at the call processor;

means for converting the received protocol aiding data to interface data that is transparent to the Geolocation Server Station protocol; and

means for passing the interface data to a GPS module.

19. (withdrawn with amendment): The ~~method~~protocol independent interface of claim 18, further including packing the interface data into a message format before passing the interface data to the GPS module.

20. (withdrawn with amendment): The ~~method~~protocol independent interface of claim 19, wherein the call processor receives the protocol aiding data from a base station.

21. (withdrawn with amendment): The ~~method~~protocol independent interface of claim 20, wherein a Geolocation Server Station produces the aiding data.

22. (withdrawn with amendment): The ~~method~~protocol independent interface of claim 21, wherein the Geolocation Server Station utilizes a Code Division Multiple Access ("CDMA") protocol to produce the protocol aiding data.

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23. (withdrawn with amendment): The ~~method~~protocol independent interface of claim 22, wherein the protocol is IS-801.

24. (withdrawn): A protocol independent interface for processing, within a mobile device, protocol aiding data received at a call processor where the protocol aiding data is produced according to a Geolocation Server Station protocol, the protocol independent interface comprising:

- an air-interface protocol to GPS module interface converter;
- a serial link in signal communication between the call processor and Global Positioning System ("GPS") module; and
- a GPS module data structure.

25. (original): A method for processing, within a mobile device, protocol aiding data received at a call processor with a Global Positioning System ("GPS") interface, where the protocol aiding data is produced according to a Geolocation Server Station protocol, the method comprising:

- receiving, at the GPS interface, the protocol aiding data received at the call processor;
- passing the interface data to a GPS module; and
- converting the received protocol aiding data to interface data that is transparent to the Geolocation Server Station protocol.

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26. (withdrawn): A protocol independent interface for processing, within a mobile device, protocol aiding data received at a call processor with a Global Positioning System ("GPS") interface, where the protocol aiding data is produced according to a Geolocation Server Station protocol, the protocol independent interface comprising:

means for receiving, at the GPS interface, the protocol aiding data received at the call processor;

means for passing the interface data to a GPS module; and

means for converting the received protocol aiding data to interface data that is transparent to the Geolocation Server Station protocol.